

1. Is WRPS open to an alternate schedule for completion of the mock-up? With the time duration needed for award, design review, fabrication and installation, a Sept 01, 2016 completion date is not feasible.

Yes, completion needs to be by September 29, 2016.

2. What clearances are necessary for simulated deployment of the inspection equipment into the riser (e.g., how much space needs to be available above and around the 24-inch riser)?

Enough space to allow easy access for equipment and minimum of two individuals; estimated four feet vertical clearance and sufficient horizontal clearance to allow man access (e.g. platform or man lift).

3. There is no requirement in the RFP, or SOW, on location of this mock-up. Is WRPS expecting this to be in some maximum distance from the Hanford Site?

The facility needs to be within easy driving distance, no more than 20 miles from 3110 Port of Benton Boulevard, Richland, WA.

4. Does winning this contract produce a conflict of interest for development of DST Inspection Technologies?

Yes, it would create a conflict of interest which would provide an unfair advantage to a potential DST inspection technology provider who would have regular access to a test platform during the prototype development phase of competition.

5. What hoist capacity (lbs.) is needed to lift the inspection equipment into the riser?

Not expected to need more than 200 lbs.

6. Can the partial wall height be reduced to 15 ft.? Also, is the partial wall height measured from grade or from the top of the knuckle?

15 ft. from grade is acceptable.

7. What capacity is needed for the pneumatic system?

Not known at this time. Please specify any system in place and if there are restrictions to adding/upgrading if required by selected inspection technologies.

8. Does the mockup DST tank steel need to match the plate size (e.g., do the plate seams need to match per the original design drawings)?

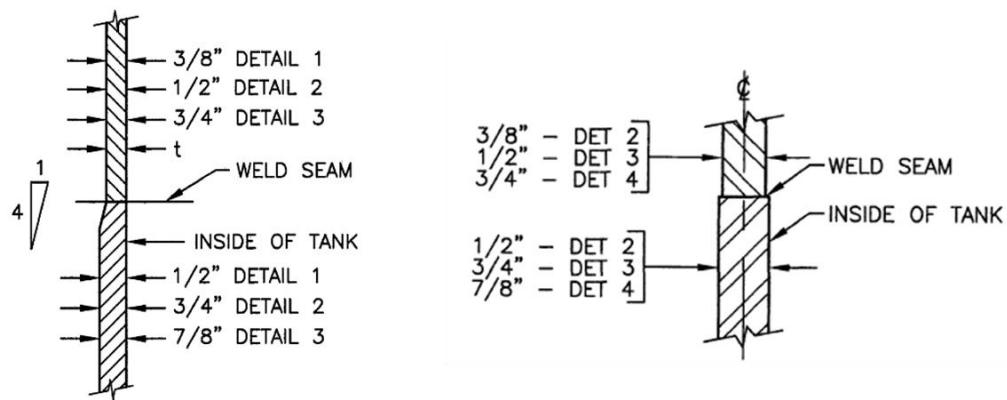
Wall and knuckle configuration should match provided drawing. Half inch floor plate configuration does not need to match design drawings however, weld seams should be typical in nature with 3 to 5 weld seems between the bottom knuckle and tank center.

9. Plate Steel:

- a. What is the significance of the plate thickness variation?
- b. Are the plates horizontal seams matched at centerlines?
- c. Is the offset of the different plate thicknesses on the annular side of the primary tank?

The goal for the use of the same steel plate thicknesses is to have a system as close to what will be seen in the field as possible.

- a. Inspection technologies must demonstrate ability to function across different plate thickness and weld configurations
- b. & c. Horizontal seam matching within the DSTs have historically been on centerline or offset aligned on the primary tank interior with the beveled edge on the exterior of the primary tank as shown in the graphic below.



For the purposes of the inspection mock-up, either is acceptable to facilitate ease of fabrication.

10. Is the intent to mock up damage to the refractory? (e.g., blockage of the air channels with the refractory material).

No, but during testing we may put obstacles in the path of inspection equipment to understand their limitations.

11. Is the ability to lift the primary tank required (stated as “should” in SOW)? If so, how high, or is it intended to be moved out of the way?

The goal is to allow inspection of refractory after inspection equipment has been tested to determine if refractory was damaged. This could be facilitated by lifting and/or rotating the tank bottom or alternatively by lowering the refractory section away from the tank bottom. Sufficient space to perform visual inspection or repair of damaged refractory is needed.

12. Is the act of moving the tank and staging elsewhere required to be completed in a specified timeframe?

There are no requirements for moving the tank to alternate locations. If built in a different location than where the mock-up facility will be located, then the tank needs to be built in time for the mock-up facility to be functional by September 29<sup>th</sup>, 2016.

13. Will the riser be required to support any loads?

Its weight plus 200 lbs.

14. Does the work platform need to be able to support any heavy equipment associated with the inspection technologies (e.g. hydraulic power unit)? Does the work platform need to accommodate 10 people at the riser, as well?

No heavy equipment is required for testing. The riser location needs to be able to accommodate 2 people working.

15. Is it acceptable to have one tank with the primary tank and secondary liner covering only one refractory pie shape at a time?

Yes, as long as movement between the two refractory patterns is not disruptive to testing operations (e.g. 30 to 90 minutes) and safe.

16. Section 3.0 of the SOW states that the first field support is expected to be needed by September 1, 2016. The MSR lists the final design to be submitted by August 18, 2016 and the As-Built drawings being submitted on September 19, 2016. This would indicate that fabrication is being performed at the same time as the field support. Can WRPS please confirm the first field support date required?

The facility needs to be completed and the ability to close out the contract (regarding the construction portion, i.e., construction complete, located where the mock-up facility will be for testing inspection equipment, and as built drawing completed (red lines do not need to be incorporated) by September 29, 2016. Please propose new dates in the MSR to reflect what is needed to support that goal.